

WHAT IS CLAIMED IS:

Sub A

1. A display device comprising:
display means for forming information; and
optical means for guiding the light from said
5 display means to the eye, said optical means including
a curved face for totally reflecting the light.

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Sub E3

2. A display device according to claim 1, wherein
said optical means ~~includes~~ ^{consists}, in the order in the
proceeding direction of light, an entrance face for
introducing the light from said display means, said
curved face and a reflecting face for reflecting the
light toward the eye, wherein the light reflected by
said reflecting face is transmitted by said curved face
and reaches the eye.

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Sub C2

3. A display device according to claim 1, wherein
said curved face has variable optical power depending
on the azimuthal angle.

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4. A display device according to claim 1,
satisfying a condition $|\alpha| \leq 20^\circ$ wherein α is the angle
between the tangential line to said curved face at the
vertex thereof and a line perpendicular to the optical
axis of the eye.

5. A display device according to claim 1, further

comprising:

illumination means for illuminating the eye; and
light-receiving means for receiving the light
reflected from the eye, for detecting the visual line
thereof.

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Sub F5 6. A display device according to claim 5, further
comprising:

control means for controlling the display state of
10 said display means, according to the light receiving
state of said photosensor means.

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Sub F5 7. A display device according to claim 2, wherein
said reflecting face is a half-transmitting face.

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Sub F5 8. A display device according to claim 2, wherein
said reflecting face has variable optical power
depending on the azimuthal angle.

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9. A display device comprising:

information forming means for forming an
information;
optical means for guiding a light of said
information forming means to an eye, in which said
optical means have a reflecting curved face decentered
having a positive optical power;
illuminating means for illuminating said eye;

*seept
det.* converging means for converging a light of said illuminating means reflected from said eye; and detecting means for receiving a light from said converging means to detect a state of said eye;

5 wherein where an imaging magnification of said converging means is β , a following condition is satisfied,

$$0.02 < |\beta| < 0.18.$$

10 10. A display device according to claim 9, wherein said reflecting curved face has variable optical power depending on the azimuthal angle.

add A5
add E!
add C1